

SEQUENCE LISTING

<110> Pohl, Jens
 Bechtold, Rolf
 Kruse, Michael

<120> Osteoinductive Materials

<130> 2923-725

<140> US 10/550,958
 <141> 2005-09-28

<150> PCT/EP04/003238
 <151> 2004-03-26

<160> 5

<170> PatentIn version 3.5

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 <222> (2032)..(2034)
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cgctgttctc tttggtgtca ttcagcggct ggccagagg atg aga ctc ccc aaa	654
Met Arg Leu Pro Lys	
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Leu Leu Thr Phe Leu Leu Trp Tyr Leu Ala Trp Leu Asp Leu Glu Phe	
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Ile Cys Thr Val Leu Gly Ala Pro Asp Leu Gly Gln Arg Pro Gln Gly	
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Thr Arg Pro Gly Leu Ala Lys Ala Glu Ala Lys Glu Arg Pro Pro Leu	
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Ala Arg Asn Val Phe Arg Pro Gly Gly His Ser Tyr Gly Gly Gly Ala	
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acc aat gcc aat gcc agg gca aag gga ggc acc ggg cag aca gga ggc	894
Thr Asn Ala Asn Ala Arg Ala Lys Gly Gly Thr Gly Gln Thr Gly Gly	
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Leu Thr Gln Pro Lys Lys Asp Glu Pro Lys Lys Leu Pro Pro Arg Pro	
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Gly Gly Pro Glu Pro Lys Pro Gly His Pro Pro Gln Thr Arg Gln Ala	
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Thr Ala Arg Thr Val Thr Pro Lys Gly Gln Leu Pro Gly Lys Ala	
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ccc cca aaa gca gga tct gtc ccc agc tcc ttc ctg ctg aag aag gcc	1086
Pro Pro Lys Ala Gly Ser Val Pro Ser Ser Phe Leu Leu Lys Lys Ala	
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Arg Glu Pro Gly Pro Pro Arg Glu Pro Lys Glu Pro Phe Arg Pro Pro	
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ccc atc aca ccc cac gag tac atg ctc tcg ctg tac agg acg ctg tcc	1182
Pro Ile Thr Pro His Glu Tyr Met Leu Ser Leu Tyr Arg Thr Leu Ser	
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gat gct gac aga aag gga ggc aac agc agc gtg aag ttg gag gct ggc	1230
Asp Ala Asp Arg Lys Gly Gly Asn Ser Ser Val Lys Leu Glu Ala Gly	
185 190 195	
ctg gcc aac acc atc acc agc ttt att gac aaa ggg caa gat gac cga	1278
Leu Ala Asn Thr Ile Thr Ser Phe Ile Asp Lys Gly Gln Asp Asp Arg	

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Gly	Pro	Val	Val	Arg	Lys	Gln	Arg	Tyr	Val	Phe	Asp	Ile	Ser	Ala	Leu															
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gag	aag	gat	ggg	ctg	ctg	ggg	gcc	gag	ctg	cgg	atc	ttg	cgg	aag	aag															1374
Glu	Lys	Asp	Gly	Leu	Leu	Gly	Ala	Glu	Leu	Arg	Ile	Leu	Arg	Lys	Lys															
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ccc	tcg	gac	acg	gcc	aag	cca	gcg	gcc	ccc	gga	ggc	ggg	cgg	gct	gcc															1422
Pro	Ser	Asp	Thr	Ala	Lys	Pro	Ala	Ala	Pro	Gly	Gly	Gly	Arg	Ala	Ala															
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cag	ctg	aag	ctg	tcc	agc	tgc	ccc	agc	ggc	cgg	cag	ccg	gcc	tcc	ttg															1470
Gln	Leu	Lys	Leu	Ser	Ser	Cys	Pro	Ser	Gly	Arg	Gln	Pro	Ala	Ser	Leu															
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ctg	gat	gtg	cgc	tcc	gtg	cca	ggc	ctg	gac	gga	tct	ggc	tgg	gag	gtg															1518
Leu	Asp	Val	Arg	Ser	Val	Pro	Gly	Leu	Asp	Gly	Ser	Gly	Trp	Glu	Val															
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Phe	Asp	Ile	Trp	Lys	Leu	Phe	Arg	Asn	Phe	Lys	Asn	Ser	Ala	Gln	Leu															
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tgc	ctg	gag	ctg	gag	gcc	tgg	gaa	cgg	ggc	agg	gcc	gtg	gac	ctc	cgt															1614
Cys	Leu	Glu	Leu	Glu	Ala	Trp	Glu	Arg	Gly	Arg	Ala	Val	Asp	Leu	Arg															
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Gly	Leu	Gly	Phe	Asp	Arg	Ala	Ala	Arg	Gln	Val	His	Glu	Lys	Ala	Leu															
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Ile	Lys	Ala	Arg	Ser	Gly	Gln	Asp	Asp	Lys	Thr	Val	Tyr	Glu	Tyr	Leu															
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ttc	agc	cag	cgg	cga	aaa	cgg	cgg	gcc	cca	ctg	gcc	act	cgc	cag	ggc															1806
Phe	Ser	Gln	Arg	Arg	Lys	Arg	Arg	Ala	Pro	Leu	Ala	Thr	Arg	Gln	Gly															
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<220>

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<223> The 'Xaa' at location 465 stands for Lys, Asn, Arg, Ser, Thr, Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp, Cys, or Phe.

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Met Arg Leu Pro Lys Leu Leu Thr Phe Leu Leu Trp Tyr Leu Ala Trp

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Gln Arg Pro Gln Gly Thr Arg Pro Gly Leu Ala Lys Ala Glu Ala Lys	35	40	45
Glu Arg Pro Pro Leu Ala Arg Asn Val Phe Arg Pro Gly Gly His Ser	50	55	60
Tyr Gly Gly Gly Ala Thr Asn Ala Asn Ala Arg Ala Lys Gly Gly Thr	65	70	75
Gly Gln Thr Gly Gly Leu Thr Gln Pro Lys Lys Asp Glu Pro Lys Lys	85	90	95
Leu Pro Pro Arg Pro Gly Gly Pro Glu Pro Lys Pro Gly His Pro Pro	100	105	110
Gln Thr Arg Gln Ala Thr Ala Arg Thr Val Thr Pro Lys Gly Gln Leu	115	120	125
Pro Gly Gly Lys Ala Pro Pro Lys Ala Gly Ser Val Pro Ser Ser Phe	130	135	140
Leu Leu Lys Lys Ala Arg Glu Pro Gly Pro Pro Arg Glu Pro Lys Glu	145	150	155
Pro Phe Arg Pro Pro Pro Ile Thr Pro His Glu Tyr Met Leu Ser Leu	165	170	175
Tyr Arg Thr Leu Ser Asp Ala Asp Arg Lys Gly Gly Asn Ser Ser Val	180	185	190
Lys Leu Glu Ala Gly Leu Ala Asn Thr Ile Thr Ser Phe Ile Asp Lys	195	200	205
Gly Gln Asp Asp Arg Gly Pro Val Val Arg Lys Gln Arg Tyr Val Phe	210	215	220

Asp Ile Ser Ala Leu Glu Lys Asp Gly Leu Leu Gly Ala Glu Leu Arg
 225 230 235 240

Ile Leu Arg Lys Lys Pro Ser Asp Thr Ala Lys Pro Ala Ala Pro Gly
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Gly Gly Arg Ala Ala Gln Leu Lys Leu Ser Ser Cys Pro Ser Gly Arg
 260 265 270

Gln Pro Ala Ser Leu Leu Asp Val Arg Ser Val Pro Gly Leu Asp Gly
 275 280 285

Ser Gly Trp Glu Val Phe Asp Ile Trp Lys Leu Phe Arg Asn Phe Lys
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Asn Ser Ala Gln Leu Cys Leu Glu Leu Glu Ala Trp Glu Arg Gly Arg
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Ala Val Asp Leu Arg Gly Leu Gly Phe Asp Arg Ala Ala Arg Gln Val
 325 330 335

His Glu Lys Ala Leu Phe Leu Val Phe Gly Arg Thr Lys Lys Arg Asp
 340 345 350

Leu Phe Phe Asn Glu Ile Lys Ala Arg Ser Gly Gln Asp Asp Lys Thr
 355 360 365

Val Tyr Glu Tyr Leu Phe Ser Gln Arg Arg Lys Arg Arg Ala Pro Leu
 370 375 380

Ala Thr Arg Gln Gly Lys Arg Pro Ser Lys Asn Leu Lys Ala Arg Cys
 385 390 395 400

Ser Arg Lys Ala Leu His Val Asn Phe Lys Asp Met Gly Trp Asp Asp
 405 410 415

Trp Ile Ile Ala Pro Leu Glu Tyr Glu Ala Phe His Cys Glu Gly Leu
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Cys Glu Phe Pro Leu Arg Ser His Leu Glu Pro Thr Asn His Ala Val
 435 440 445

Ile Gln Thr Leu Met Asn Ser Met Asp Pro Glu Ser Thr Pro Pro Thr
 450 455 460

Xaa Cys Val Pro Thr Arg Leu Ser Pro Ile Ser Ile Leu Phe Ile Asp
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Ser Cys Gly Cys Arg
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 <222> (5)..(7)
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 <222> (9)..(9)
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<223> Xaa=(Y)28 with Y=any amino acid including cysteine

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<221> VARIANT

<222> (4)..(6)

<223> Xaa=Y with Y=any amino acid including cysteine

<220>

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<222> (8)..(8)

<223> Xaa=(Y)30-32 with Y=any amino acid including cysteine

<220>

<221> VARIANT

<222> (9)..(9)

<223> Xaa=X with X=any amino acid except cysteine

<220>

<221> REPEAT

<222> (11)..(11)

<223> Xaa=(Y)31 with Y=any amino acid including cysteine

<220>

<221> VARIANT

<222> (13)..(13)

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<223> Xaa=(X)28 with X=any amino acid except cysteine

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<222> (4)..(6)

<223> Xaa=X with X=any amino acid except cysteine

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<222> (8)..(8)

<223> Xaa=(X)31-33 with X=any amino acid except cysteine

<220>

<221> REPEAT

<222> (10)..(10)

<223> Xaa=(X)31 with X=any amino acid except cysteine

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<222> (12)..(12)

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